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193098 MLRS, MISSILE NUMBERS 1122, 1121, 1120, ROUND NUMBERS V--ETC(U)
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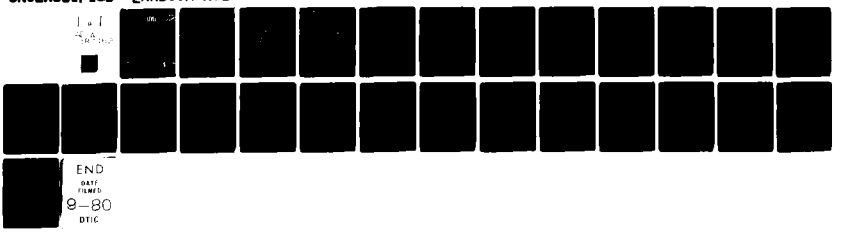

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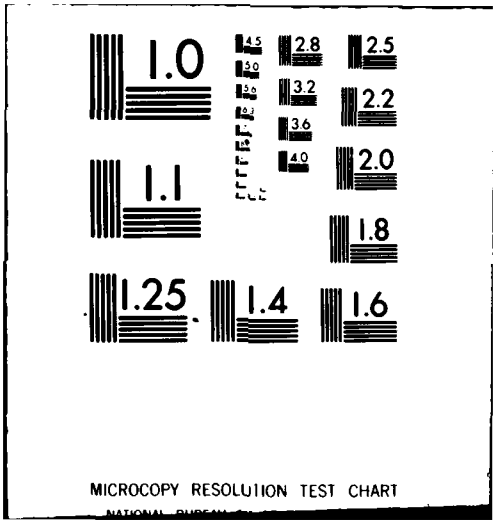
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MICROCOPY RESOLUTION TEST CHART

DR 1131
FEBRUARY 1980

AD

LEVEL II

METEOROLOGICAL DATA REPORT

19309B MLRS
Missile Numbers 1122, 1121, 1120
Round Numbers V-113, V-114, V-115
12 February 1980

by

White Sands Meteorological Team

ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

ECOM
UNITED STATES ARMY ELECTRONICS COMMAND

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18. SUPPLEMENTARY NOTES

19. KEY WORDS (Continue on reverse side if necessary and identify by block number)

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

Meteorological data gathered for the launching of 19309B MLRS, Missile Numbers 1122, 1121, 1120, Round Numbers V-113, V-114 and V-115 are presented in tabular form.

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CONTENTS

INTRODUCTION

19309B MLRS, Missile Numbers 1122, 1121, 1120, Round Numbers V-113, V-114, V-115, were launched from LC-39, White Sands Missile Range (WSMR), New Mexico, at 1314:03, 1619:01, 1737:18 MST, 12 February 1980.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature (^{o}F), relative humidity, dew point (^{o}F), wind direction and speed, and cloud cover were made at the "C" Station Met Site.

(2) Monitor of wind speed and direction from one anemometer was provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained from RAPTS T-9 pibal observation at:

SITE AND ALTITUDE	
LC-39	2 Km
SMR	2 Km

(2) Air structure data (rawinsonde) were collected at the following Met Sites.

SITE AND TIME	
LC-37	1321 MST
WSD	1600 MST
LC-37	1715 MST

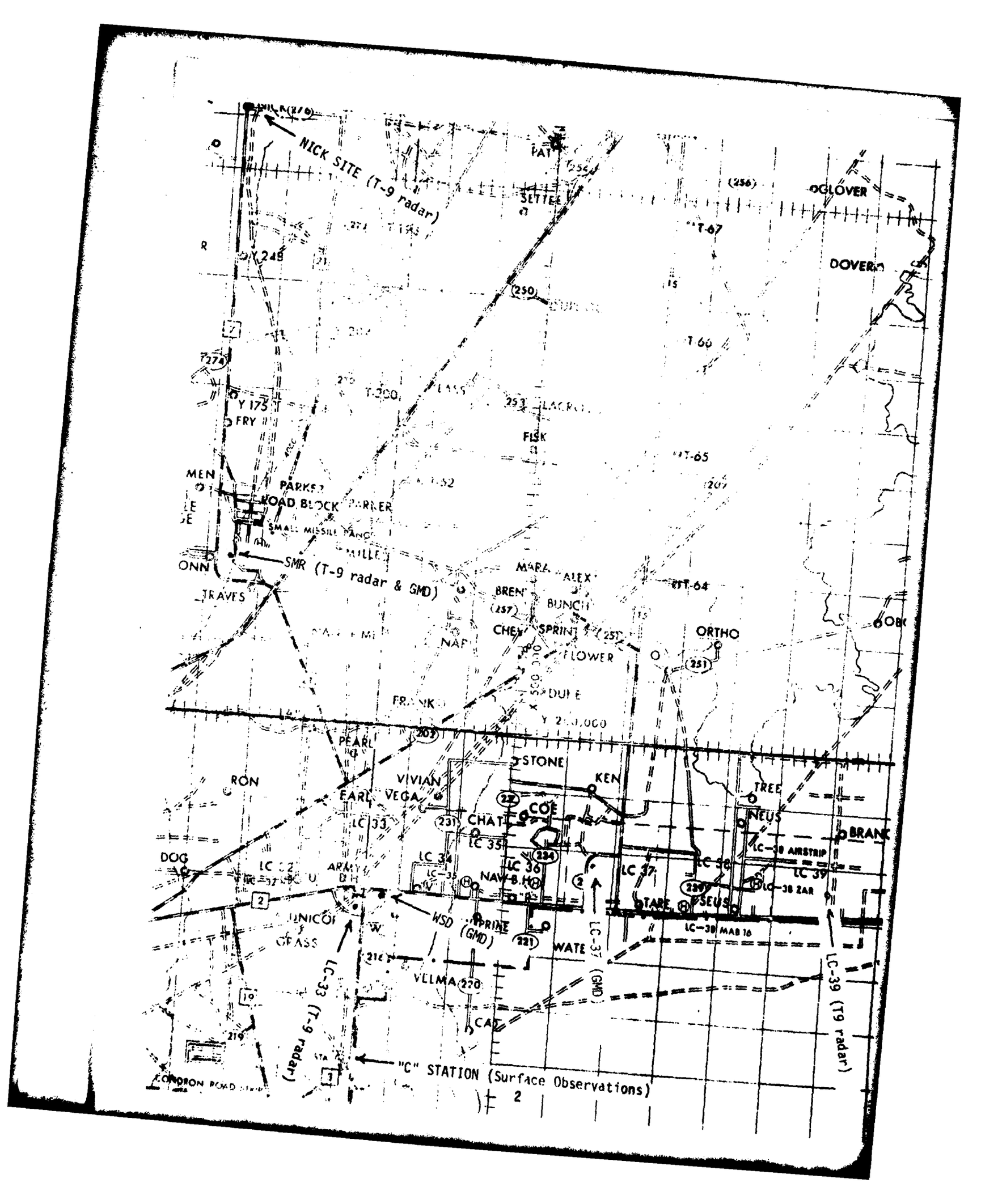
NICK SITE (T-9 radar)
SMR (T-9 radar & GMD)
"C" STATION (Surface Observations)
LC-33 (T-9 radar)
LC-37 (GMD)
LC-39 (T9 radar)
WSD (GMD)
PAT
SETTEE
GLOVER
DOVER
T-67
T-66
T-65
T-64
FISK
FRY
Y 175
Y 248
PARKS
ROAD BLOCK
TRAVES
BUNCH
ORTHO
FLOWER
PEARL
STONE
KEN
VIVIAN
VEGA
EARL
RON
COE
CHAT
NEUS
TREE
DOG
VELMA
CAT
LC 33
LC 34
LC 35
LC 36
LC 37
LC 38
LC 39
LC-38 AIRSTRIP
LC-38 ZAR
LC-38 MAB 16
NAVY B.H.
ARMY B.H.
PRIME
WATE
TARE
PSEUS
GRASS
CONDRON ROAD

TABLE 1
SURFACE OBSERVATIONS OBTAINED FROM "C" STATION ON 12 February 1980

TIME MST	SKY CONDITIONS	PVLG VSBY	WEATHER AND OBSTRUCTIONS TO VISION	[illegible]	[illegible]	[illegible]	[illegible]	SPEED
0058	CLR	20		25.975	28	23	160	02
0158	CLR	20		25.980	26	24	120	06
0258	CLR	20		25.970	26	20	300	06
0358	CLR	20		25.975	24	15	120	05
0458	CLR	20		25.975	26	18	220	03
0558	CLR	20		25.975	27	21	280	02
0658	250-SCT	30		25.990	25	18	130	02
0758	250-SCT	40		26.015	27	21	360	04
0858	250-BKN	40		26.030	34	27	360	02
0958	250-BKN	40		26.030	42	30	030	02
1058	E250-BKN	40		26.020	47	32	E270	03
1158	E250-BKN	40		25.990	53	35	180	11
1258	60SCTE250-BKN	40		25.945	58	30	200	11
1358	60SCTE250-BKN	40		25.925	54	29	220	11
1458	60SCTE250 BKN	40		25.910	58	31	210	08
1558	60SCTE250-BKN	40		25.900	58	31	310	08
1658	60SCTE250-BKN	40		25.895	56	29	230	10
1758	60SCTE250-BKN	40		25.900	51	30	220	08
1858	250SCT	10		25.915	46	29	230	05
1958	CLR	10		25.930	42	30	170	04
2058	CLR	10		25.945	40	30	150	04
2158	CLR	10		25.955	38	29	090	02
2258	CLR	10		25.950	38	31	E100	06
2358	CLR	20		25.940	35	31	200	07

PILOT BALLOON MEASURED WIND DATA

TABLE 2

RELEASED FROM LC-39 DATE 12 February 1980 TIME 1300 MST

TRACKER COORDINATES (WSTM) X= 530,938.82 Y= 186,564.96 H= 4063.75

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH

HEIGHTS ARE METERS AGL X OR FEET AGL ____.

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
SFC	230	05
90	218	06
150	226	05
210	233	06
270	228	06
330	220	04
390	256	08
500	255	08
650	241	08
800	264	07
950	256	06
1150	219	07
1350	226	07
1550	219	08
1750	245	11
2000	259	10

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS

PILOT BALLOON MEASURED WIND DATA

TABLE 3

RELEASED FROM SMR DATE 12 February 1980 TIME 1327 MST

TRACKER COORDINATES (WSTM) X= 472,441.28 Y= 214,137.54 H= 3999.00

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH

HEIGHTS ARE METERS AGL X OR FEET AGL ____.

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
SFC	245	10
90	MISG	MISG
150	MISG	MISG
210	239	12
270	231	15
330	225	15
390	224	14
500	233	16
650	231	15
800	215	12
950	238	05
1150	MISG	MISG
1350	MISG	MISG
1550	MISG	MISG
1750	MISG	MISG
2000	MISG	MISG

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS

PILOT BALLOON MEASURED WIND DATA

TABLE 4

RELEASED FROM SMR DATE 12 February 1980 TIME 1544 MST

TRACKER COORDINATES (WSTM) X= 472,441.28 Y= 214,137.54 H= 3999.00

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH

HEIGHTS ARE METERS AGL X OR FEET AGL ____.

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
SFC	245	08
90	MISG	MISG
150	242	15
210	254	17
270	253	15
330	232	16
390	223	18
500	228	14
650	235	15
800	230	09
950	248	09
1150	226	10
1350	246	06
1550	224	06
1750	245	08
2000	MISG	MISG

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS

PILOT BALLOON MEASURED WIND DATA

TABLE 5

RELEASED FROM LC-39 DATE 12 February 1980 TIME 1600 MST

TRACKER COORDINATES (WSTM) X= 530,938.82 Y= 186,564.96 H= 4063.75

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH

HEIGHTS ARE METERS AGL X OR FEET AGL ____.

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
SFC	210	02
90	278	08
150	269	05
210	270	05
270	273	04
330	271	04
390	248	05
500	252	06
650	236	07
800	239	06
950	238	07
1150	247	08
1350	225	08
1550	230	12
1750	244	17
2000	257	14

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS

PILOT BALLOON MEASURED WIND DATA

TABLE 6

RELEASED FROM LC-39 DATE 12 February 1980 TIME 1735 MST

TRACKER COORDINATES (WSTM) X= 530,938.82 Y= 186,564.96 H= 4063.75

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH

HEIGHTS ARE METERS AGL x OR FEET AGL ____.

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
SFC		CALM
90	278	07
150	233	09
210	249	08
270	251	10
330	259	10
390	266	06
500	256	06
650	270	09
800	255	11
950	245	12
1150	247	12
1350	260	10
1550	249	08
1750	270	08
2000	266	15

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS

SIATION ALTITUDE 4047.27 FEET MSL
12 FEB. 80 1321 HRS MST
ASCENSION NO. 2

SIGNIFICANT LEVEL DATA
0430180002
LC-37

GEODETIC COORDINATES
32.41141 LAT DEG
106.30852 LON DEG

TABLE 7

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT
876.8	4047.3	13.4	-1.7	35.0
869.8	4267.7	11.0	-4.2	34.0
850.0	4895.4	8.4	-5.1	38.0
780.4	7185.5	1.6	-7.2	52.0
704.4	9859.8	-6.3	-9.7	77.0
700.0	10020.9	-6.3	-13.6	56.0
689.7	10402.0	-6.3	-19.9	33.0
686.0	10540.8	-4.0	-20.0	16.0
680.5	10749.6	-3.4	-25.5	16.0
605.2	13760.5	-8.6	-20.9	21.0
500.0	18526.8	-20.1	-30.2	22.0
400.0	23835.4	-32.4	-46.4	23.0
376.8	25211.4	-36.0	-49.2	24.0
300.0	30289.6	-48.1		
269.4	32592.4	-54.3		
250.0	34167.1	-55.1		
241.6	34883.9	-56.4		
231.0	35824.7	-55.2		
215.4	37309.5	-50.9		
200.0	38901.5	-50.6		
173.2	42000.9	-49.3		
150.0	45080.6	-53.4		
136.4	47079.2	-57.4		
125.2	48851.9	-60.5		
107.8	51901.5	-63.9		
100.0	53419.5	-64.1		

STATION ALTITUDE 4047.27 FEET MSL
12 FEB. 88 1321 MNS MST
ASCENSION NO. 2

UPPER AIR DATA
0430180002
LC-37

GEODETIC COORDINATES
32.41141 LAT DEG
106.30852 LON DEG

TABLE 8

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
4047.3	876.8	13.4	-1.7	35.0	1063.5	660.2	210.0	4.1	1.000262
4500.0	862.4	10.0	-4.5	35.5	1058.9	656.2	212.4	4.4	1.000257
5000.0	846.7	8.1	-5.1	38.6	1046.8	653.9	214.7	4.7	1.000253
5500.0	831.0	6.6	-5.5	41.7	1032.9	652.2	216.7	5.0	1.000250
6000.0	815.7	5.1	-5.9	44.8	1019.3	650.5	222.4	5.0	1.000246
6500.0	800.6	3.6	-6.4	47.8	1005.9	648.7	229.5	5.1	1.000243
7000.0	785.8	2.2	-6.9	50.9	992.6	647.0	236.4	5.9	1.000239
7500.0	771.1	.7	-7.3	54.9	979.3	645.2	238.6	6.6	1.000236
8000.0	756.4	-.8	-7.7	59.6	965.9	643.5	239.6	7.5	1.000233
8500.0	742.1	-2.3	-8.1	64.3	952.8	641.7	240.1	8.5	1.000229
9000.0	728.0	-3.8	-8.6	69.0	939.9	639.9	242.5	9.5	1.000226
9500.0	714.2	-5.2	-9.2	73.6	927.1	638.2	245.2	10.3	1.000223
10000.0	700.6	-6.3	-13.0	58.7	913.5	636.8	249.1	10.8	1.000215
10500.0	687.1	-4.7	-23.6	21.0	891.1	630.5	252.3	10.5	1.000203
11000.0	673.9	-3.8	-25.6	16.4	871.3	629.5	255.0	9.4	1.000198
11500.0	660.9	-4.1	-25.8	17.2	857.3	630.4	254.8	8.3	1.000195
12000.0	648.2	-5.6	-26.0	18.1	843.5	627.4	250.7	7.4	1.000192
12500.0	635.7	-6.4	-26.2	18.9	830.0	626.4	244.6	6.9	1.000189
13000.0	623.5	-7.3	-26.5	19.7	816.6	625.4	237.1	6.9	1.000186
13500.0	611.5	-8.1	-26.8	20.6	803.5	624.3	233.2	6.7	1.000183
14000.0	599.6	-9.2	-27.4	21.0	790.9	623.1	232.2	6.3	1.000180
14500.0	587.7	-10.4	-28.3	21.2	778.8	621.6	244.6	6.2	1.000177
15000.0	576.0	-11.6	-29.3	21.3	766.8	620.2	261.1	6.8	1.000174
15500.0	564.5	-12.8	-30.3	21.4	755.1	618.7	272.1	9.0	1.000171
16000.0	553.3	-14.0	-31.3	21.5	743.6	617.2	278.1	11.7	1.000168
16500.0	542.3	-15.2	-32.2	21.6	732.3	615.8	275.9	14.0	1.000165
17000.0	531.6	-16.4	-33.2	21.7	721.1	614.3	273.5	16.3	1.000163
17500.0	521.0	-17.6	-34.2	21.8	710.1	612.8	270.4	17.3	1.000160
18000.0	510.7	-18.8	-35.2	21.9	699.4	611.3	267.4	18.2	1.000158
18500.0	500.5	-20.0	-36.2	22.0	688.8	609.9	265.5	19.4	1.000155
19000.0	490.2	-21.2	-37.1	22.1	677.6	608.4	263.9	20.6	1.000152
19500.0	480.0	-22.4	-38.1	22.2	666.6	607.0	262.2	22.6	1.000150
20000.0	470.0	-23.5	-39.0	22.3	655.7	605.6	260.7	24.6	1.000147
20500.0	460.2	-24.7	-40.0	22.4	645.1	604.1	261.5	25.3	1.000145
21000.0	450.6	-25.8	-41.0	22.5	634.7	602.7	262.4	25.8	1.000142
21500.0	441.3	-27.0	-41.9	22.6	624.4	601.3	264.2	25.6	1.000140
22000.0	432.1	-28.1	-42.9	22.7	614.3	599.8	266.1	25.2	1.000138
22500.0	423.1	-29.3	-43.8	22.7	604.4	598.4	267.0	25.7	1.000135
23000.0	414.3	-30.5	-44.8	22.8	594.6	596.9	267.1	26.5	1.000133
23500.0	405.7	-31.6	-45.8	22.9	585.1	595.5	266.6	27.3	1.000131

STATION ALTITUDE 4047.27 FEET MSL
12 FEB. 80 1321 HRS MST
ASCENSION NO. 2

UPPER AIR DATA
0430180002
LC-37

GEODETIC COORDINATES
32.41141 LAT DEG
106.30852 LON DEG

TABLE 8 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
24000.0	397.2	-32.8	-46.8	23.1	575.7	604.0	266.1	28.0	1.000129
24500.0	388.6	-34.1	-47.8	23.5	566.4	602.3	265.1	28.4	1.000127
25000.0	380.3	-35.4	-48.8	23.8	557.3	600.7	263.8	28.4	1.000125
25500.0	372.0	-36.7	-50.3	22.6**	547.9	599.1	262.8	28.4	1.000122
26000.0	363.7	-37.9	-52.2	20.3**	538.5	597.6	262.4	28.4	1.000120
26500.0	355.6	-39.1	-54.3	17.9**	529.2	596.1	261.6	28.7	1.000118
27000.0	347.7	-40.3	-56.4	15.5**	520.1	594.5	260.5	29.2	1.000116
27500.0	340.0	-41.5	-58.7	13.2**	511.2	593.0	259.8	29.5	1.000114
28000.0	332.5	-42.6	-61.2	10.8**	502.5	591.5	259.5	29.6	1.000112
28500.0	325.1	-43.8	-64.0	8.5**	493.9	589.9	259.5	29.7	1.000110
29000.0	317.9	-45.0	-67.3	6.1**	485.4	588.4	260.0	29.8	1.000108
29500.0	310.8	-46.2	-71.6	3.7**	477.1	586.9	260.4	30.3	1.000106
30000.0	303.9	-47.4	-78.9	1.4**	469.0	585.3	260.3	31.8	1.000104
30500.0	297.1	-48.7			461.0	583.7	260.1	33.6	1.000103
31000.0	290.2	-50.0			453.1	581.9	259.6	37.6	1.000101
31500.0	283.5	-51.4			445.3	580.2	259.2	41.6	1.000099
32000.0	277.0	-52.7			437.7	578.4	258.5	41.8	1.000097
32500.0	270.6	-54.1			430.2	576.7	257.5	40.7	1.000096
33000.0	264.2	-54.5			421.0	576.1	256.6	39.5	1.000094
33500.0	258.0	-54.8			411.6	575.7	255.6	38.3	1.000092
34000.0	252.0	-55.0			402.4	575.4	246.7	33.9	1.000090
34500.0	246.1	-55.1			394.2	574.5	241.1	35.9	1.000088
35000.0	240.3	-56.3			385.9	573.8	240.4	41.5	1.000086
35500.0	234.6	-55.6			375.7	574.6	244.4	45.1	1.000084
36000.0	229.1	-54.7			365.3	575.8	246.9	48.2	1.000081
36500.0	223.8	-53.2			354.5	577.7	248.9	51.2	1.000079
37000.0	218.6	-51.8			344.0	579.6	249.2	53.5	1.000077
37500.0	213.5	-50.9			334.6	580.8	249.3	55.5	1.000075
38000.0	208.6	-50.8			326.7	581.0	248.7	57.7	1.000073
38500.0	203.8	-50.7			319.1	581.1	247.6	60.0	1.000071
39000.0	199.1	-50.6			311.6	581.2	246.5	61.4	1.000069
39500.0	194.5	-50.5			304.1	581.5	244.9	62.2	1.000068
40000.0	190.1	-50.1			296.9	581.8	243.3	63.5	1.000066
40500.0	185.7	-49.9			289.8	582.1	241.6	65.1	1.000065
41000.0	181.4	-49.7			282.9	582.5	241.0	67.7	1.000063
41500.0	177.3	-49.5			276.1	582.6	240.7	70.5	1.000061
42000.0	173.2	-49.5			269.6	582.9	241.5	71.9	1.000060
42500.0	169.2	-50.0			264.1	582.0	242.1	72.9	1.000059
43000.0	165.5	-50.6			258.8	581.1	243.6	72.6	1.000058
43500.0	161.5	-51.5			253.6	580.3	245.6	71.6	1.000056

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4047.27 FEET MSL
12 FEB. 80 1321 HRS MST
ASCENSION NO. 2

UPPER AIR DATA
0430180002
LC-37

GEODETIC COORDINATES
32.41141 LAT DEG
106.30852 LON DEG

TABLE 8 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
44000.0	157.8	-52.0			248.5	579.4	247.3	70.0	1.000055
44500.0	154.1	-52.6			243.5	578.5	248.5	67.8	1.000054
45000.0	150.6	-53.3			238.6	577.7	249.5	66.3	1.000053
45500.0	147.0	-54.2			234.0	576.4	249.8	65.6	1.000052
46000.0	143.6	-55.2			229.5	575.1	250.3	65.0	1.000051
46500.0	140.2	-56.2			225.2	573.8	250.7	64.5	1.000050
47000.0	136.9	-57.2			220.9	572.4	251.4	62.9	1.000049
47500.0	133.7	-58.1			216.5	571.3	252.6	59.3	1.000048
48000.0	130.5	-59.0			212.2	570.1	253.7	56.0	1.000047
48500.0	127.3	-59.9			208.0	568.9	254.6	53.4	1.000046
49000.0	124.3	-60.7			203.8	567.9	255.2	51.2	1.000045
49500.0	121.3	-61.2			199.4	567.1	253.9	51.4	1.000044
50000.0	118.3	-61.8			195.0	566.4	252.7	51.8	1.000043
50500.0	115.5	-62.3			190.8	565.6	252.0	53.8	1.000042
51000.0	112.7	-62.9			186.7	564.9	251.3	55.9	1.000042
51500.0	109.9	-63.5			182.6	564.1	251.3	57.2	1.000041
52000.0	107.3	-63.9			178.6	563.5	251.3	58.5	1.000040
52500.0	104.7	-64.0			174.3	563.4			1.000039
53000.0	102.1	-64.0			170.1	563.4			1.000038

STATION ALTITUDE 4047.27 FEET MSL
12 FEB. 80 1321 HRS MST
ASCENSION NO. 2

MANDATORY LEVELS
0430180002
LC-37

GEODETIC COORDINATES
32.41141 LAT DEG
106.30852 LON DEG

TABLE 9

PRESSURE	GEOPOTENTIAL	TEMPERATURE		REL. HUM.	WIND DATA	
		AIR	DEWPOINT	PERCENT	DIRECTION	SPEED
MILLIBARS	FEET	DEGREES CENTIGRADE			DEGREES(TN)	KNOTS
850.0	4892.	8.4	-5.1	38.	214.2	4.6
800.0	6521.	3.6	-6.4	48.	229.9	5.1
750.0	8225.	-1.5	-7.8	62.	239.8	8.0
700.0	10011.	-6.3	-13.6	56.	249.3	10.8
650.0	11924.	-5.4	-26.0	18.	251.4	7.5
600.0	13970.	-9.1	-27.3	21.	232.2	6.3
550.0	16157.	-14.4	-31.6	22.	277.9	12.5
500.0	18501.	-20.1	-36.2	22.	265.4	19.5
450.0	21034.	-25.9	-41.0	22.	262.5	25.9
400.0	23796.	-32.4	-46.4	23.	266.4	27.7
350.0	26836.	-39.9	-55.8	10.**	260.7	29.0
300.0	30231.	-48.1			260.2	32.6
250.0	34094.	-55.1			243.6	32.8
200.0	38810.	-50.6			240.9	61.2
175.0	41673.	-49.4			240.8	71.5
150.0	44961.	-53.4			249.5	66.2
125.0	48746.	-60.5			255.3	51.5
100.0	53257.	-64.1				

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3989.00 FEET MSL
12 FEB. 80 1600 HRS MST
ASCENSION NO. 71

SIGNIFICANT LEVEL DATA
043002071
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 10

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT
877.0	3989.0	12.8	2.9	51.0
850.0	4847.2	9.9	-.9	47.0
770.2	7501.2	2.2	-5.6	56.0
700.0	10005.1	-5.0	-7.9	80.0
688.0	10451.2	-6.2	-8.0	87.0
677.2	10858.3	-6.2	-15.4	48.0
659.2	11552.6	-5.0	-19.6	30.0
641.4	12259.1	-5.4	-20.2	30.0
573.2	15126.8	-11.3	-24.7	32.0
500.0	18519.0	-19.6	-31.4	34.0
455.2	20790.6	-24.4	-36.0	33.0
400.0	23840.3	-32.3	-40.8	42.0
377.6	25168.5	-35.8	-43.6	43.0
345.0	27213.9	-40.5	-43.8	70.0
315.2	29220.3	-45.1	-49.7	59.0
300.0	30300.2	-48.0		
269.1	32628.9	-54.0		
258.1	33510.5	-54.3		
250.0	34180.9	-56.1		
242.2	34843.2	-57.0		
216.4	37213.3	-53.1		
200.0	38892.1	-51.7		

UPPER AIR DATA
0430020071
WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL
12 FEB. 80 1600 HRS MST
ASCENSION NO. 71

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 11

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
3989.0	877.0	12.8	2.9	51.0	1065.0	659.9	.0	.0	1.000272
4000.0	876.6	12.8	2.9	50.9	1064.7	659.8	242.9	.0	1.000272
4500.0	860.8	11.1	.7	48.6	1052.1	657.7	242.9	1.5	1.000265
5000.0	845.2	9.5	-1.1	47.5	1039.2	655.7	242.9	2.9	1.000258
5500.0	829.6	8.0	-2.0	49.2	1025.5	654.0	242.9	4.3	1.000254
6000.0	814.4	6.6	-2.9	50.9	1011.9	652.3	242.9	5.8	1.000249
6500.0	799.4	5.1	-3.8	52.6	998.6	650.6	258.4	4.0	1.000245
7000.0	784.7	3.7	-4.7	54.3	985.5	648.8	299.7	2.7	1.000241
7500.0	770.2	2.2	-5.6	56.0	972.6	647.1	280.3	2.8	1.000237
8000.0	755.7	.8	-5.9	60.8	959.2	645.4	262.6	3.5	1.000234
8500.0	741.4	-.7	-6.3	65.6	946.0	643.7	258.7	7.8	1.000230
9000.0	727.4	-2.1	-6.8	70.4	933.1	642.0	255.4	10.8	1.000227
9500.0	713.6	-3.5	-7.3	75.2	920.4	640.3	240.3	10.8	1.000223
10000.0	700.1	-5.0	-7.9	80.0	907.9	638.5	242.7	11.0	1.000220
10500.0	686.7	-6.2	-8.7	82.3	894.6	637.1	244.2	11.3	1.000216
11000.0	673.5	-6.0	-16.1	44.3	877.2	637.1	244.6	11.5	1.000205
11500.0	660.5	-5.1	-19.4	31.4	857.8	638.1	244.4	11.6	1.000198
12000.0	647.9	-5.3	-20.1	30.0	841.9	637.9	246.2	11.3	1.000194
12500.0	635.4	-5.9	-20.6	30.2	827.6	637.1	248.6	10.8	1.000191
13000.0	623.0	-6.9	-21.3	30.5	814.7	635.9	250.1	10.4	1.000187
13500.0	610.9	-8.0	-22.1	30.9	802.0	634.6	254.0	10.3	1.000184
14000.0	599.1	-9.0	-22.9	31.2	789.6	633.4	260.3	10.9	1.000181
14500.0	587.5	-10.0	-23.7	31.6	777.3	632.1	263.3	12.4	1.000178
15000.0	576.1	-11.0	-24.5	31.9	765.2	630.9	264.9	14.2	1.000175
15500.0	564.8	-12.2	-25.4	32.2	753.5	629.5	265.8	14.9	1.000172
16000.0	553.4	-13.4	-26.4	32.5	741.9	628.0	266.7	15.7	1.000169
16500.0	542.4	-14.7	-27.4	32.8	730.6	626.5	267.7	16.6	1.000166
17000.0	531.5	-15.9	-28.4	33.1	719.5	625.0	267.8	17.7	1.000164
17500.0	520.9	-17.1	-29.4	33.4	708.5	623.5	266.1	19.1	1.000161
18000.0	510.6	-18.3	-30.4	33.7	697.7	622.0	264.6	20.6	1.000158
18500.0	500.4	-19.6	-31.4	34.0	687.1	620.5	263.3	22.3	1.000156
19000.0	490.2	-20.6	-32.4	33.8	676.0	619.2	262.8	24.4	1.000153
19500.0	480.1	-21.7	-33.4	33.6	664.9	617.9	262.4	26.5	1.000150
20000.0	470.3	-22.7	-34.4	33.3	654.1	616.6	263.1	27.1	1.000148
20500.0	460.7	-23.8	-35.4	33.1	643.4	615.3	263.6	27.5	1.000145
21000.0	451.2	-24.9	-36.3	33.6	633.1	613.8	263.2	27.1	1.000143
21500.0	441.7	-26.2	-37.0	35.1	623.1	612.2	262.3	27.1	1.000140
22000.0	432.5	-27.5	-37.8	36.6	613.2	610.6	261.1	27.4	1.000138
22500.0	423.4	-28.8	-38.6	38.0	603.6	609.0	262.2	27.4	1.000136
23000.0	414.5	-30.1	-39.4	39.5	594.1	607.4	263.2	27.4	1.000134

STATION ALTITUDE 3989.00 FEET MSL
12 FEB. 80 1600 HRS MST
ASCENSION NO. 71

UPPER AIR DATA
0430020071
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 11 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
23500.0	405.8	-31.4	-40.2	41.0	584.7	605.8	263.8	27.4	1.000131
24000.0	397.2	-32.1	-41.2	42.1	575.5	604.1	264.3	27.2	1.000129
24500.0	388.1	-34.0	-42.3	42.5	566.2	602.5	264.9	27.0	1.000127
25000.0	380.4	-35.4	-43.4	42.9	557.2	600.8	264.5	27.7	1.000125
25500.0	372.1	-36.6	-43.6	47.4	547.9	599.3	263.7	28.5	1.000123
26000.0	364.0	-37.7	-43.5	54.0	538.5	597.8	261.9	29.6	1.000121
26500.0	356.0	-38.9	-43.6	60.6	529.3	596.3	260.6	30.4	1.000119
27000.0	348.3	-40.0	-43.7	67.2	520.3	594.9	259.9	31.0	1.000117
27500.0	340.6	-41.2	-44.7	68.4	511.4	593.4	259.6	30.7	1.000115
28000.0	333.0	-42.3	-46.1	65.7	502.5	591.9	259.6	29.9	1.000113
28500.0	325.6	-43.4	-47.6	62.9	493.7	590.5	259.6	29.6	1.000111
29000.0	318.3	-44.6	-49.1	60.2	485.2	589.0	259.6	29.4	1.000109
29500.0	311.2	-45.9	-53.0	43.7**	476.9	587.4	261.3	29.2	1.000107
30000.0	304.2	-47.2	-61.9	16.4**	468.9	585.6	263.1	28.9	1.000105
30500.0	297.2	-48.5			460.9	583.9	265.6	27.8	1.000103
31000.0	290.4	-49.8			452.9	582.2	268.0	27.1	1.000101
31500.0	283.7	-51.1			445.0	580.5	269.9	26.6	1.000099
32000.0	277.1	-52.4			437.3	578.8	270.5	25.8	1.000097
32500.0	270.7	-53.7			429.7	577.2	270.6	24.9	1.000096
33000.0	264.4	-54.1			420.6	576.6	265.0	25.8	1.000094
33500.0	258.2	-54.3			411.0	576.3	259.5	27.2	1.000092
34000.0	252.2	-55.6			403.8	574.6	256.4	32.0	1.000090
34500.0	246.2	-56.5			396.0	573.4	254.3	36.6	1.000088
35000.0	240.4	-56.7			387.0	573.1	254.9	39.4	1.000086
35500.0	234.8	-55.9			376.5	574.2	255.0	42.0	1.000084
36000.0	229.2	-55.1			366.2	575.3	253.1	43.9	1.000082
36500.0	223.9	-54.3			356.3	576.4	251.7	46.0	1.000079
37000.0	218.6	-53.5			346.6	577.4	252.3	49.3	1.000077
37500.0	213.5	-52.9			337.6	578.2			1.000075
38000.0	208.6	-52.4			329.2	578.8			1.000073
38500.0	203.7	-52.0			320.9	579.3			1.000071

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3989.00 FEET MSL
12 FEB. 80 1600 HRS MST
ASCENSION NO. 71

MANDATORY LEVELS
0430020071
WHITE SANDS

TABLE 12

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS
850.0	4844.	9.9	-.9	47.	242.9	2.5
800.0	6483.	5.2	-3.7	53.	257.6	4.0
750.0	8197.	.2	-6.1	63.	249.4	4.9
700.0	9995.	-5.0	-7.9	60.	242.7	11.0
650.0	11903.	-5.2	-20.0	30.	245.7	11.3
600.0	13953.	-8.9	-22.8	31.	259.8	10.8
550.0	16144.	-13.8	-26.7	33.	266.4	16.0
500.0	18493.	-19.6	-31.4	34.	263.3	22.4
450.0	21034.	-25.1	-36.4	34.	263.2	27.1
400.0	23801.	-32.3	-40.8	42.	264.1	27.3
350.0	26843.	-39.8	-43.7	66.	260.0	30.8
300.0	30241.	-48.0			264.6	28.3
250.0	34108.	-56.1			255.5	33.6
200.0	38800.	-51.7				

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4047.27 FEET MSL
12 FEB. 80 1715 HRS MST
ASCENSION NO. 4

SIGNIFICANT LEVEL DATA
0430180004
LC-37

GEODETIC COORDINATES
32.41141 LAT DEG
106.30852 LON DEG

TABLE 13

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT
875.1	4047.3	12.8	-3.5	32.0
850.0	4845.7	10.1	-2.2	42.0
746.8	8322.5	.8	-5.8	61.0
700.0	10013.9	-5.0	-6.6	87.0
678.6	10815.2	-5.7	-22.1	26.0
659.8	11541.0	-4.1	-22.6	22.0
624.0	12980.1	-6.5	-24.1	23.0
500.0	18535.3	-19.2	-33.0	28.0
473.0	19886.0	-22.0	-36.2	26.0
424.6	22464.1	-28.6	-40.3	31.0
400.0	23860.1	-32.3	-38.6	52.0
392.4	24304.6	-33.2	-39.6	52.0
374.0	25409.2	-35.9	-39.0	73.0
344.4	27276.8	-40.5	-43.6	72.0
333.0	28029.1	-42.2	-46.7	61.0
316.6	29146.6	-45.1	-49.6	60.0
300.0	30323.7	-47.9		
260.2	33364.8	-55.3		
250.0	34203.6	-56.1		
227.4	36188.5	-55.9		
218.6	37018.0	-54.7		
205.6	38312.5	-54.0		
200.0	38898.0	-52.9		
162.0	43401.3	-50.6		
150.0	45044.7	-53.4		

STATION ALTITUDE 4047.27 FEET MSL
12 FEB. 80 1715 HRS MST
ASCENSION NO. 4

UPPER AIR DATA
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GEODETIC COORDINATES
32.41141 LAT DEG
106.30852 LON DEG

TABLE 14

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
4047.3	875.1	12.8	-3.5	32.0	1063.9	659.5	.0	.0	1.000259
4500.0	860.8	11.3	-2.6	37.7	1052.0	657.7	234.6	.7	1.000258
5000.0	845.1	9.7	-2.3	42.8	1038.5	655.9	234.6	1.6	1.000256
5500.0	829.5	8.3	-2.7	45.6	1024.2	654.4	234.6	2.4	1.000252
6000.0	814.2	7.0	-3.1	48.3	1010.2	652.8	234.9	3.2	1.000248
6500.0	799.2	5.7	-3.6	51.0	996.4	651.2	241.9	4.9	1.000245
7000.0	784.5	4.3	-4.2	53.8	982.7	649.7	244.0	6.5	1.000241
7500.0	770.0	3.0	-4.8	56.5	969.3	648.1	240.5	7.7	1.000237
8000.0	755.8	1.7	-5.4	59.2	956.2	646.5	236.6	8.6	1.000234
8500.0	741.7	.2	-5.9	63.7	943.4	644.7	229.9	9.0	1.000230
9000.0	727.7	-1.5	-6.0	71.4	931.4	642.7	226.6	9.5	1.000228
9500.0	713.9	-3.2	-6.3	79.1	919.5	640.7	228.0	10.1	1.000225
10000.0	700.4	-5.0	-6.8	86.8	907.9	638.6	234.4	10.8	1.000222
10500.0	686.9	-5.4	-14.2	50.0	892.8	637.8	245.5	12.1	1.000210
11000.0	673.8	-5.3	-22.2	25.0	875.8	637.8	251.7	12.2	1.000201
11500.0	660.8	-4.2	-22.6	22.2	855.5	639.1	250.2	11.2	1.000196
12000.0	648.2	-4.9	-23.1	22.3	841.2	638.3	251.7	10.1	1.000192
12500.0	635.7	-5.7	-23.6	22.7	827.6	637.3	248.4	9.6	1.000189
13000.0	623.5	-6.5	-24.2	23.0	814.3	636.3	251.6	10.5	1.000186
13500.0	611.2	-7.7	-24.9	23.5	801.7	634.9	254.6	11.3	1.000183
14000.0	599.1	-8.8	-25.7	23.9	789.3	633.5	257.9	11.5	1.000180
14500.0	587.3	-10.0	-26.5	24.4	777.1	632.1	260.2	11.9	1.000177
15000.0	575.7	-11.1	-27.3	24.8	765.1	630.8	260.5	12.5	1.000174
15500.0	564.3	-12.3	-28.1	25.3	753.3	629.4	261.7	13.6	1.000171
16000.0	553.2	-13.4	-28.9	25.7	741.7	628.0	264.6	15.7	1.000168
16500.0	542.3	-14.5	-29.7	26.2	730.2	626.6	265.5	17.8	1.000166
17000.0	531.6	-15.7	-30.5	26.6	719.0	625.2	266.1	19.9	1.000163
17500.0	521.1	-16.8	-31.3	27.1	708.0	623.8	266.4	21.9	1.000160
18000.0	510.8	-18.0	-32.1	27.5	697.1	622.4	264.2	23.5	1.000158
18500.0	500.7	-19.1	-33.0	28.0	686.4	621.0	262.4	25.1	1.000155
19000.0	490.5	-20.2	-34.1	27.3	675.3	619.7	260.2	26.0	1.000152
19500.0	480.6	-21.2	-35.3	26.6	664.3	618.4	258.3	26.6	1.000150
20000.0	470.7	-22.3	-36.4	26.2	653.6	617.1	256.7	25.7	1.000147
20500.0	461.0	-23.6	-37.2	27.2	643.3	615.5	255.8	25.2	1.000145
21000.0	451.4	-24.9	-37.9	28.2	633.3	613.9	256.6	25.7	1.000142
21500.0	442.1	-26.1	-38.8	29.1	623.4	612.3	257.2	26.1	1.000140
22000.0	432.9	-27.4	-39.6	30.1	613.6	610.8	257.5	26.2	1.000138
22500.0	423.9	-28.7	-40.5	31.5	604.1	609.2	257.6	25.3	1.000136
23000.0	415.0	-30.0	-39.4	39.1	594.5	607.5	257.2	23.6	1.000134
23500.0	406.2	-31.3	-39.0	46.6	585.1	605.9	257.0	23.6	1.000132

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TABLE 14 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
24000.0	397.6	-32.6	-39.1	52.0	575.6	604.3	256.8	24.4	1.000130
24500.0	389.1	-33.1	-39.4	55.7	565.9	602.9	256.6	25.9	1.000127
25000.0	380.7	-34.9	-39.1	65.2	556.6	601.4	256.4	27.6	1.000125
25500.0	372.5	-36.1	-39.2	73.0	547.4	599.8	256.3	28.8	1.000123
26000.0	364.4	-37.4	-40.4	72.7	538.2	598.3	256.1	29.6	1.000121
26500.0	356.4	-38.6	-41.6	72.4	529.2	596.7	256.8	30.4	1.000119
27000.0	348.6	-39.8	-42.9	72.1	520.4	595.1	257.5	31.1	1.000117
27500.0	341.0	-41.0	-44.5	68.7	511.6	593.6	257.9	31.1	1.000115
28000.0	333.4	-42.1	-46.6	61.4	502.8	592.2	258.3	31.2	1.000113
28500.0	326.0	-43.4	-47.9	60.6	494.3	590.5	258.0	31.3	1.000111
29000.0	318.7	-44.7	-49.2	60.1	486.0	588.8	258.1	31.2	1.000109
29500.0	311.5	-45.9	-53.4	42.0**	477.6	587.2	259.2	30.3	1.000107
30000.0	304.5	-47.1	-61.8	16.5**	469.3	585.7	260.3	29.3	1.000105
30500.0	297.5	-48.3			461.0	584.1	261.7	27.9	1.000103
31000.0	290.7	-49.5			452.8	582.6	263.2	27.1	1.000101
31500.0	283.9	-50.8			444.8	581.0	264.5	27.0	1.000099
32000.0	277.4	-52.0			436.9	579.4	266.2	26.8	1.000097
32500.0	270.9	-53.2			429.1	577.8	268.4	26.5	1.000096
33000.0	264.7	-54.4			421.5	576.2	267.8	27.5	1.000094
33500.0	258.5	-55.4			413.7	574.8	264.3	30.0	1.000092
34000.0	252.4	-55.9			404.8	574.2	260.4	34.2	1.000090
34500.0	246.5	-56.1			395.6	574.0	256.7	40.2	1.000088
35000.0	240.7	-56.0			386.1	574.1	253.3	44.1	1.000086
35500.0	235.0	-56.0			376.9	574.1	253.4	45.6	1.000084
36000.0	229.5	-55.9			368.0	574.2	253.6	46.3	1.000082
36500.0	224.1	-55.4			359.5	574.6	253.9	46.2	1.000080
37000.0	218.8	-54.7			348.9	575.6	255.6	47.9	1.000078
37500.0	213.7	-54.4			340.3	576.1	255.8	50.7	1.000076
38000.0	208.7	-54.2			332.0	576.5	254.4	53.7	1.000074
38500.0	203.8	-53.6			323.4	577.2	253.9	56.8	1.000072
39000.0	199.0	-52.8			314.8	578.2	253.7	59.4	1.000070
39500.0	194.4	-52.6			307.1	578.6	253.6	61.9	1.000068
40000.0	189.9	-52.3			299.7	578.9	254.4	63.3	1.000067
40500.0	185.6	-52.1			292.4	579.2	255.4	64.4	1.000065
41000.0	181.3	-51.8			285.3	579.6	255.4	65.7	1.000064
41500.0	177.1	-51.6			278.4	579.9	255.3	67.0	1.000062
42000.0	173.0	-51.3			271.6	580.2	254.0	67.4	1.000060
42500.0	169.0	-51.1			265.1	580.6	252.3	67.6	1.000059
43000.0	165.1	-50.8			258.6	580.9	249.9	67.4	1.000058
43500.0	161.3	-50.8			252.6	581.0	247.0	67.2	1.000056

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

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TABLE 14 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
44000.0	157.5	-51.6			247.7	579.8			1.000055
44500.0	153.9	-52.5			242.9	578.7			1.000054
45000.0	150.3	-53.3			238.2	577.6			1.000053

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TABLE 15

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS
850.0	4842.	10.1	-2.2	42.	234.6	1.3
800.0	6483.	5.7	-3.6	51.	241.8	4.9
750.0	8202.	1.1	-5.7	60.	233.8	8.8
700.0	10004.	-5.0	-6.8	87.	234.6	10.9
650.0	11916.	-4.7	-23.0	22.	252.6	10.2
600.0	13967.	-8.7	-25.7	24.	257.7	11.5
550.0	16158.	-13.7	-29.1	26.	264.6	16.4
500.0	18510.	-19.2	-33.0	28.	262.3	25.1
450.0	21053.	-25.0	-38.1	26.	256.7	25.8
400.0	23821.	-32.3	-38.8	52.	256.8	24.2
350.0	26866.	-39.6	-42.7	72.	257.3	31.0
300.0	30265.	-47.9			261.2	28.4
250.0	34131.	-56.1			258.9	36.4
200.0	38806.	-52.9			253.7	58.8
175.0	41642.	-51.4			254.9	67.4
150.0	44925.	-53.4				

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.